

IN THE CLAIMS:

1-17. (Cancelled).

18. (Currently Amended) A chemical feed system for a foam dispenser, comprising:
a motor;
a pump unit;

a drive transmission system in line between said motor and pump unit, said drive transmission system comprising a magnetic coupling assembly having a first magnetic coupling member and a second magnetic coupling member and an intermediate shroud positioned between said first and second magnetic coupling members and sealing fluid within said pump unit wherein said shroud has a chemical reception cavity; and

an isocyanate feed inlet port that feeds isocyanate to the chemical reception cavity,
wherein said shroud has a side wall and an upper cover which together define a sealed chemical reception cavity in which one of said first and second magnetic coupling members is received, and

wherein a reactant foam precursor chemical flows between an interior surface of said shroud and the magnetic coupling member which is positioned in the chemical reception cavity formed within said shroud and is coupled to said pump unit, and the other magnetic coupling member is driven by said motor and drives said second magnetic coupling member,

wherein said drive transmission system includes a drive transmission shaft, and said pump unit includes an inlet pump manifold and an outlet pump manifold with said shroud fastened to said outlet pump manifold, and said outlet pump manifold includes a manifold reception cavity within which said drive transmission shaft axially extends, and said drive transmission shaft is supported by a first bearing device also received within the manifold reception cavity of said output pump manifold, and

wherein said inlet pump manifold and outlet pump manifold are in a vertically stacked arrangement with said inlet manifold having a filter extending across a lower region of said inlet manifold.

19. (Canceled)

20. (Original) The system of claim 18 wherein said shroud includes a cylindrical side wall, an upper cap and a lower end, and said first magnetic coupling member includes a shroud reception cavity for receiving an upper region of said shroud, and said second magnetic coupling member is received within the chemical reception cavity defined by an inner surface of the side wall of said shroud.

21. (Currently Amended) The chemical feed system as recited in claim 18 ~~further comprising a~~ wherein said transmission shaft ~~having~~ has a drive transmission upstream end received within said second magnetic coupling member and a downstream end, and wherein said first magnetic coupling member has a raised upper section with threaded aperture for receiving a drive shaft of said motor.

22. (Canceled)

23. (Currently Amended) The chemical feed system as recited in claim ~~[[22]]~~ 18 wherein a magnetic ring portion of said second magnetic coupling member is fully received within the chemical reception cavity of said shroud.

24. (Canceled)

25. (Currently Amended) A chemical feed system for a foam dispenser, comprising:
a motor;
a pump unit;
a drive transmission system in line between said motor and pump unit, said drive transmission system comprising a magnetic coupling assembly having a first magnetic coupling member and a second magnetic coupling member and an intermediate shroud positioned between said first and second magnetic coupling members and sealing fluid within said pump unit, and wherein said shroud has a chemical reception cavity into which chemical flows,

wherein said drive transmission system includes a drive transmission shaft, and said pump unit includes an inlet pump manifold and an outlet pump manifold with said shroud fastened to said outlet pump manifold, and said outlet pump manifold includes a manifold reception cavity within which said drive transmission shaft axially extends, and said drive transmission shaft is supported by a first bearing device also received within the manifold reception cavity of said output pump manifold, and wherein said drive transmission system further comprises a second bearing device also received within said manifold reception cavity to provide bearing support to said drive transmission shaft and which second bearing device is axially spaced apart from said first bearing device, and

wherein said second magnetic coupling member is received within said shroud and is spaced from said shroud as to have a fluid intermediate layer between a peripheral surface of said second magnetic coupling member and an interior surface of said shroud extending about said peripheral surface, and wherein said drive transmission shaft has an enlarged section positioned between two radially smaller sections, and said first and second bearing sections being received within said two radially smaller sections.

26-35. (Canceled)

36. (Currently Amended) A chemical feed system for a foam dispenser system, comprising:

a pump with a pump head and an inlet conduit;

a chemical supply line with an input valve assembly adapted for releasable attachment to said pump and fixed to the chemical supply line, said input valve assembly having a valve for stopping flow of chemical into said inlet conduit;

a dispenser and a chemical feed line having an upstream end connected to said pump and a downstream end adapted for connection with said dispenser, and said chemical feed line having a heater extending therealong;

an output valve provided in line between an inlet region of said chemical feed line and an output of said pump, and

wherein said input valve assembly has a fastener which secures said input valve assembly to an inlet ~~housing~~ manifold defining said inlet conduit; and

an inlet manifold flow stopper which is dimensioned to preclude back flow out of said inlet manifold when said input valve assembly is detached from said inlet manifold.

37. (Cancelled)

38. (Previously Presented) The feed system as recited in claim 36 wherein said chemical feed line has a length of 40 feet or less and said chemical supply line has a length of greater than 40 feet.

39-55. (Cancelled)

56. (Previously Presented) The chemical feed system as recited in claim 18 wherein the chemical feed system is for a polyurethane foam dispenser.

57. (Previously Presented) The chemical feed system as recited in claim 18 further comprising a source of isocyanate for feeding the isocyanate to a polyurethane foam dispenser.

IN THE DRAWINGS:

Accompanying this Amendment is a complete Replacement Drawing Sheet set replacing the originally filed drawing set.